

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/011202 A1

(51) International Patent Classification⁷: **H04L 12/28**

(21) International Application Number:
PCT/KR2004/001856

(22) International Filing Date: **23 July 2004 (23.07.2004)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
10-2003-0051157 24 July 2003 (24.07.2003) KR

(71) Applicant (for all designated States except US): UTStarcom Korea Limited [KR/KR]; San 136-1, Ami-ri, Bubal-eub, Icheon-si, Kyongki-do 467-701 (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **KOO, Woo Seog** [KR/KR]; Jugong Apt. 115-303, 470, Anheung-dong, Icheon-si, Gyeonggi-do 467-712 (KR).

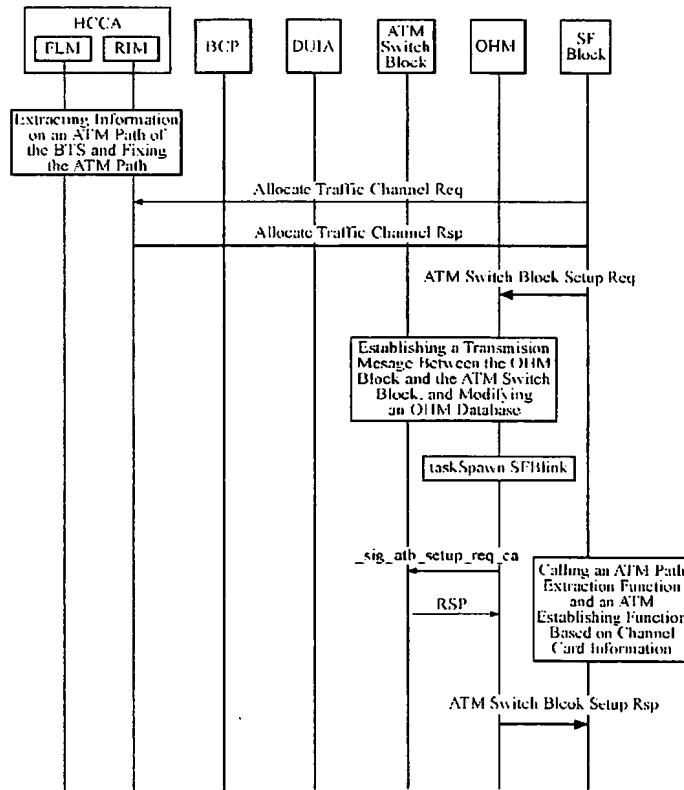
(74) Agent: **YOON, Jee Hong**; Hannuri Bldg., 219, Naejang-dong, Chongno-gu, Seoul 110-053 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: METHOD FOR ESTABLISHING AN ATM TRAFFIC CHANNEL PATH BETWEEN A BSC AND A BTS IN AN EV-DO SYSTEM



(57) Abstract: The present invention generally relates to a method for establishing an asynchronous transfer mode (ATM) traffic channel path between a SF block of a base station controller (BSC) and a channel card block (HCCA) of a base transceiver station (BTS). More particularly, the present invention is directed to a method for establishing an ATM traffic channel path between the SF block of the BSC and the channel card block of the BTS and exchanging information on such established path, wherein the blocks have been designed and implemented in the course of commercializing ATM communication network based on an evolution-data only (EV-DO) system of Qualcomm. The present invention modifies a conventional message between the BSC and BTS, conceives a new message between them while reflecting the conventional message and provides an additional way of exchanging information on the ATM path. In this way, the present invention can be used for establishing the ATM path between the BSC and BTS in the telecommunication network based on the ATM. In summary, the present invention provides a method of establishing the ATM traffic channel path between the BSC and the BTS in the EV-DO system, which requires minimal changes to the system when a network basis is changed from the IP to the ATM.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*